

CLAIMS

What is claimed is:

- 5 1. A method for resolving ambiguity between names and entities through use of an information architecture comprising the steps of:
 - a) providing a plurality of names;
 - b) assigning at least one persistent, uniquely identified, addressable information object to each of said names;
 - 10 c) storing said at least one information object associated with each name in an electronically accessible network to generate an information structure.
2. The method of claim 1, wherein said names comprise biological names.
- 15 3. The method of claim 2, wherein said biological names comprise taxonomic names.
4. The method of claim 2, wherein said biological names comprise molecule names.
- 20 5. The method of claim 4, wherein said molecule names are selected from the group consisting of gene names and protein names.
6. The method of claim 2, wherein said biological names comprise cell names.
- 25 7. The method of claim 1, wherein a content identifier is used to address said information object.
8. The method of claim 1, wherein said content identifier is at least one of a Digital Object Identifier (DOI), a Uniform Resource Identifier (URI) or a Uniform Resource Name (URN), an Archival Resource Key (ARK), a Persistent Uniform Resource Locator (PURL), a 30 Universal Unique Identifier (UUID), and Life Sciences Identifier (LSID).

9. The method of claim 7, wherein said information architecture is accessible over an electronic communication network.

5 10. The method of claim 9, wherein said addressing of said information objects and accessing said information objects is managed by one or more resolution servers or redirection services.

10 11. The method of claim 7, wherein assignment of said content identifiers is managed by a registration agency.

12. The method of claim 2, wherein content of said information objects comprises at least one of metadata, data, and descriptive text, said content representing at least one of a biological Name, Taxon, Nomos, Practitioner, or Exemplar.

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13. The method of claim 12, wherein assignment of said content is based on phylogenetic, phenotypic, genotypic, phenetic, genomic, or polyphasic grouping of Exemplars and/or Taxa.

20 14. The method of claim 1, further comprising the step of providing a processor configured to provide service software to users accessing said information architecture.

15. The method of claim 14, wherein said service software is configured to route said uses to third party information resources having information related to said information object.

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16. The method of claim 15, wherein said third party information resources comprise historical and current taxonomic and nomenclatural revisions of said information objects.

30 17. A system comprising a processor and software configured to carry out the method of claim 1.

18. A method for providing taxonomic and nomenclatural services, comprising:

- a) providing biological information objects;
- b) creating Digital Object Identifiers for said information objects;
- c) making said Digital Object Identifiers accessible in a network; and

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- d) routing users and applications, said routing comprising linking to third

party resources via a menu delivered to the user via a global DOI directory whenever the user selects a DOI-based hyperlink, to multiple services related to said biological information objects, said multiple services comprising direct and persistent links to a record of historical and current taxonomic and nomenclatural revisions of said biological information objects.

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